

**Combined Declaration for Patent Application and Power of Attorney**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHOD FOR DETECTING GENE AFFECTED BY ENDOCRINE DISRUPTOR**

the specification of which (check one)

- ☐ is attached hereto;  
☐ was filed in the United States under 35 U.S.C. §111 on \_\_\_\_\_, as  
 U.S. Appl. No. \_\_\_\_\_\*; or  
☒ was/will be filed in the U.S. under 35 U.S.C. §371 by entry into the U.S. national stage of an  
 international (PCT) application, PCT/JP99/05964; filed 28/10/1999, entry requested on  
 \_\_\_\_\_\*; national stage application received U.S. Appl. No. \_\_\_\_\_\*; §371/§102(e)  
 date \_\_\_\_\_ (\* if known)

and was amended on \_\_\_\_\_ (if applicable).

(include dates of amendments under PCT Art. 19 and 34 if PCT)

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and I acknowledge the duty to disclose to the Patent and Trademark Office (PTO) all information known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119 and 365 of any prior foreign application(s) for patent or inventor's certificate, or prior PCT application(s) designating a country other than the U.S., listed below with the "Yes" box checked and have also identified below any such application having a filing date before that of the application on which priority is claimed:

|                             |                             |                             |                                     |                          |
|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------------------|
| <u>310285/1998</u>          | <u>Japan</u>                | <u>30/10/1998</u>           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (Number)                    | (Country)                   | (Day Month Year Filed)      | YES                                 | NO                       |
| <u>                    </u> | <u>                    </u> | <u>                    </u> | <input type="checkbox"/>            | <input type="checkbox"/> |
| (Number)                    | (Country)                   | (Day Month Year Filed)      | YES                                 | NO                       |

I hereby claim the benefit under 35 U.S.C. §120 of any prior U.S. non-provisional application(s) or prior PCT application(s) designating the U.S. listed below, or under §119(e) of any prior U.S. provisional applications listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in such U.S. or PCT application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the PTO all information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application and the national filing date of this application:

|                             |                             |  |
|-----------------------------|-----------------------------|--|
| <u>                    </u> | <u>                    </u> | <u>                    </u>            |
| (Application No.)           | (Day Month Year Filed)      | (Status: patented, pending, abandoned) |
| <u>                    </u> | <u>                    </u> | <u>                    </u>            |
| (Application No.)           | (Day Month Year Filed)      | (Status: patented, pending, abandoned) |
| <u>                    </u> | <u>                    </u> | <u>                    </u>            |
| (Application No.)           | (Day Month Year Filed)      | (Status: patented, pending, abandoned) |

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

All of the practitioners associated with Customer Number 001444

Direct all correspondence to the address associated with Customer Number 001444; i.e.,

**BROWDY AND NEIMARK, P.L.L.C.**  
 624 Ninth Street, N.W.  
 Washington, D.C. 20001-5303  
 (202) 628-5197

The undersigned hereby authorizes the U.S. Attorneys or Agents appointed herein to accept and follow instructions from **AOYAMA & PARTNERS** as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. Attorneys or Agents and the undersigned. In the event of a change of the persons from whom instructions may be taken, the U.S. Attorneys or Agents appointed herein will be so notified by the undersigned.

Title: METHOD FOR DETECTING GENE AFFECTED BY ENDOCRINE DISRUPTOR

U.S. Application filed \_\_\_\_\_, Serial No. \_\_\_\_\_  
PCT Application filed Oct. 28, 1999, Serial No. PCT/JP99/05964

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |  |   |                    |
|--|--|---|--------------------|
| FULL NAME OF FIRST INVENTOR<br><b>Akihiro KONDO</b>  |  | INVENTOR'S SIGNATURE<br><i>Akihiro Kondo</i>  | DATE<br>21/03/2001 |
| RESIDENT<br>Kusatsu-shi, Shiga Japan <i>JPX</i>  |  | CITIZENSHIP<br>Japan                          |                    |
| POST OFFICE ADDRESS<br>101, Hamoparesu-Kusatsu, 12-1, Nishishibukawa 2-chome, Kusatsu-shi, Shiga Japan |  |   |                    |
| FULL NAME OF SECOND JOINT INVENTOR<br><b>Hiroaki SAGAWA</b>  |  | INVENTOR'S SIGNATURE<br><i>Hiroaki Sagawa</i> | DATE<br>21/03/2001 |
| RESIDENT<br>Kusatsu-shi, Shiga Japan <i>JPX</i>  |  | CITIZENSHIP<br>Japan                          |                    |
| POST OFFICE ADDRESS<br>503, Hamoparesu-Kusatsu, 12-1, Nishishibukawa 2-chome, Kusatsu-shi, Shiga Japan |  |   |                    |
| FULL NAME OF THIRD JOINT INVENTOR<br><b>Junichi MINENO</b>   |  | INVENTOR'S SIGNATURE<br><i>Junichi Mineno</i> | DATE<br>21/03/2001 |
| RESIDENT<br>Uji-shi, Kyoto Japan <i>JPX</i>  |  | CITIZENSHIP<br>Japan                          |                    |
| POST OFFICE ADDRESS<br>15-78, Minamiyama, Kohata, Uji-shi, Kyoto Japan                                 |  |   |                    |
| FULL NAME OF FOURTH JOINT INVENTOR<br><b>Fusao KIMIZUKA</b>  |  | INVENTOR'S SIGNATURE<br><i>Fusao Kimizuka</i> | DATE<br>21/03/2001 |
| RESIDENT<br>Omihachiman-shi, Shiga Japan <i>JPX</i>  |  | CITIZENSHIP<br>Japan                          |                    |
| POST OFFICE ADDRESS<br>1500-20, Furukawa-cho, Omihachiman-shi, Shiga Japan                             |  |   |                    |
| FULL NAME OF FIFTH JOINT INVENTOR<br><b>Ikunoshin KATO</b>   |  | INVENTOR'S SIGNATURE<br><i>Ikunoshin Kato</i> | DATE<br>21/03/2001 |
| RESIDENT<br>Uji-shi, Kyoto Japan <i>JPX</i>  |  | CITIZENSHIP<br>Japan                          |                    |
| POST OFFICE ADDRESS<br>1-1-150, Nanryo-cho, Uji-shi, Kyoto Japan                                       |  |   |                    |
| FULL NAME OF SIXTH JOINT INVENTOR  |  | INVENTOR'S SIGNATURE                          | DATE               |
| RESIDENT   |  | CITIZENSHIP                                   |                    |
| POST OFFICE ADDRESS  |  |   |                    |
| FULL NAME OF SEVENTH JOINT INVENTOR  |  | INVENTOR'S SIGNATURE                          | DATE               |
| RESIDENT   |  | CITIZENSHIP                                   |                    |
| POST OFFICE ADDRESS  |  |   |                    |

ALL INVENTORS MUST REVIEW APPLICATION AND DECLARATION BEFORE SIGNING. ALL ALTERATIONS MUST BE INITIALED AND DATED BY ALL INVENTORS PRIOR TO EXECUTION. NO ALTERATIONS CAN BE MADE AFTER THE DECLARATION IS SIGNED. ALL PAGES OF DECLARATION MUST BE SEEN BY ALL INVENTORS.

## SEQUENCE LISTING

<110> Takara Shuzo co., Ltd.

<120> Method of detecting a gene which is influenced by an environmental  
endocrine

<130> 661516

<150> JP 10-310285

<151> 1998-10-30

<160> 62

<210> 1

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer to amplify Smad3 mRNA.

<400> 1

caggtgtccc atcggaagg

19

<210> 2

<211> 22

<212> DNA

<213> Artificial Sequence